==========
Sequence Listing was accepted.
If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).
Reviewer: Anne Corrigan
Timestamp: [year=2008; month=3; day=17; hr=12; min=24; sec=12; ms=311;]
==========

Validated By CRFValidator v 1.0.3

Application No: 10567857 Version No: 1.0

Input Set:

Output Set:

Started: 2008-03-17 10:54:35.366
Finished: 2008-03-17 10:54:36.357
Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 991 ms
Total Warnings: 1
Total Errors: 0
No. of SeqIDs Defined: 4
Actual SeqID Count: 4

Error code	Error Description
W 402	Undefined organism found in <213> in SEQ ID (1)

SEQUENCE LISTING

<110> CHISSO CORPORATION

<120> Fluorescence proteins

<130> PCT791

<140> 10567857
<141> 2008-03-17

<150> JP 2003/207397
<151> 2003-08-12

<150> JP 2004/59611
<151> 2004-03-03

<160> 4

<170> PatentIn version 3.1

<210> 1
<211> 189
<212> PRT
<213> Aequorea aequorea

<220>
<223> Inventor: Inouye, Satoshi

<400> 1

```
Val Lys Leu Thr Ser Asp Phe Asp Asn Pro Arg Trp Ile Gly Arg His
1               5                   10                  15


Lys His Met Phe Asn Phe Leu Asp Val Asn His Asn Gly Lys Ile Ser
            20                  25                  30


Leu Asp Glu Met Val Tyr Lys Ala Ser Asp Ile Val Ile Asn Asn Leu
        35                  40                  45


Gly Ala Thr Pro Glu Gln Ala Lys Arg His Lys Asp Ala Val Glu Ala
    50                  55                  60


Phe Phe Gly Gly Ala Gly Met Lys Tyr Gly Val Glu Thr Asp Trp Pro
65                  70                  75                  80


Ala Tyr Ile Glu Gly Trp Lys Lys Leu Ala Thr Asp Glu Leu Glu Lys
                85                  90                  95


Tyr Ala Lys Asn Glu Pro Thr Leu Ile Arg Ile Trp Gly Asp Ala Leu
            100                 105                 110
```

```
Phe Asp Ile Val Asp Lys Asp Gln Asn Gly Ala Ile Thr Leu Asp Glu
        115                 120                 125

Trp Lys Ala Tyr Thr Lys Ala Ala Gly Ile Ile Gln Ser Ser Glu Asp
    130                 135                 140

Cys Glu Glu Thr Phe Arg Val Cys Asp Ile Asp Glu Ser Gly Gln Leu
145                 150                 155                 160

Asp Val Asp Glu Met Thr Arg Gln His Leu Gly Phe Trp Tyr Thr Met
                165                 170                 175

Asp Pro Ala Cys Glu Lys Leu Tyr Gly Gly Ala Val Pro
            180                 185
```

<210> 2
<211> 195
<212> PRT
<213> Obelia longissima

<400> 2

```
Met Ser Ser Lys Tyr Ala Val Lys Leu Lys Thr Asp Phe Asp Asn Pro
1               5                   10                  15

Arg Trp Ile Lys Arg His Lys His Met Phe Asp Phe Leu Asp Ile Asn
            20                  25                  30

Gly Asn Gly Lys Ile Thr Leu Asp Glu Ile Val Ser Lys Ala Ser Asp
        35                  40                  45

Asp Ile Cys Ala Lys Leu Glu Ala Thr Pro Glu Gln Thr Lys Arg His
    50                  55                  60

Gln Val Cys Val Glu Ala Phe Phe Arg Gly Cys Gly Met Glu Tyr Gly
65                  70                  75                  80

Lys Glu Ile Ala Phe Pro Gln Phe Leu Asp Gly Trp Lys Gln Leu Ala
                85                  90                  95

Thr Ser Glu Leu Lys Lys Trp Ala Arg Asn Glu Pro Thr Leu Ile Arg
            100                 105                 110
```

```
Glu Trp Gly Asp Ala Val Phe Asp Ile Phe Asp Lys Asp Gly Ser Gly
        115                 120                 125

Thr Ile Thr Leu Asp Glu Trp Lys Ala Tyr Gly Lys Ile Ser Gly Ile
    130                 135                 140

Ser Pro Ser Gln Glu Asp Cys Glu Ala Thr Phe Arg His Cys Asp Leu
145                 150                 155                 160

Asp Asn Ser Gly Asp Leu Asp Val Asp Glu Met Thr Arg Gln His Leu
                165                 170                 175

Gly Phe Trp Tyr Thr Leu Asp Pro Glu Ala Asp Gly Leu Tyr Gly Asn
            180                 185                 190

Gly Val Pro
        195
```

<210> 3
<211> 198
<212> PRT
<213> Clytia gregarium

<400> 3

```
Met Ala Asp Thr Ala Ser Lys Tyr Ala Val Lys Leu Arg Pro Asn Phe
1               5                   10                  15

Asp Asn Pro Lys Trp Val Asn Arg His Lys Phe Met Phe Asn Phe Leu
            20                  25                  30

Asp Ile Asn Gly Asp Gly Lys Ile Thr Leu Asp Glu Ile Val Ser Lys
        35                  40                  45

Ala Ser Asp Asp Ile Cys Ala Lys Leu Gly Ala Thr Pro Glu Gln Thr
    50                  55                  60

Lys Arg His Gln Asp Ala Val Glu Ala Phe Phe Lys Lys Ile Gly Met
65                  70                  75                  80

Asp Tyr Gly Lys Glu Val Glu Phe Pro Ala Phe Val Asp Gly Trp Lys
                85                  90                  95

Glu Leu Ala Asn Tyr Asp Leu Lys Leu Trp Ser Gln Asn Lys Lys Ser
            100                 105                 110
```

```
Leu Ile Arg Asp Trp Gly Glu Ala Val Phe Asp Ile Phe Asp Lys Asp
        115                 120                 125

Gly Ser Gly Ser Ile Ser Leu Asp Glu Trp Lys Ala Tyr Gly Arg Ile
    130                 135                 140

Ser Gly Ile Cys Ser Ser Asp Glu Asp Ala Glu Lys Thr Phe Lys His
145                 150                 155                 160

Cys Asp Leu Asp Asn Ser Gly Lys Leu Asp Val Asp Glu Met Thr Arg
                165                 170                 175

Gln His Leu Gly Phe Trp Tyr Thr Leu Asp Pro Asn Ala Asp Gly Leu
            180                 185                 190

Tyr Gly Asn Phe Val Pro
        195
```

<210> 4
<211> 198
<212> PRT
<213> Mitrocoma cellularia

<400> 4

```
Met Ser Met Gly Ser Arg Tyr Ala Val Lys Leu Thr Thr Asp Phe Asp
1               5                   10                  15

Asn Pro Lys Trp Ile Ala Arg His Lys His Met Phe Asn Phe Leu Asp
            20                  25                  30

Ile Asn Ser Asn Gly Gln Ile Asn Leu Asn Glu Met Val His Lys Ala
        35                  40                  45

Ser Asn Ile Ile Cys Lys Lys Leu Gly Ala Thr Glu Glu Gln Thr Lys
    50                  55                  60

Arg His Gln Lys Cys Val Glu Asp Phe Phe Gly Gly Ala Gly Leu Glu
65                  70                  75                  80

Tyr Asp Lys Asp Thr Thr Trp Pro Glu Tyr Ile Glu Gly Trp Lys Arg
                85                  90                  95
```

```
Leu Ala Lys Thr Glu Leu Glu Arg His Ser Lys Asn Gln Val Thr Leu
            100                 105                 110

Ile Arg Leu Trp Gly Asp Ala Leu Phe Asp Ile Ile Asp Lys Asp Arg
        115                 120                 125

Asn Gly Ser Val Ser Leu Asp Glu Trp Ile Gln Tyr Thr His Cys Ala
    130                 135                 140

Gly Ile Gln Gln Ser Arg Gly Gln Cys Glu Ala Thr Phe Ala His Cys
145                 150                 155                 160

Asp Leu Asp Gly Asp Gly Lys Leu Asp Val Asp Glu Met Thr Arg Gln
                165                 170                 175

His Leu Gly Phe Trp Tyr Ser Val Asp Pro Thr Cys Glu Gly Leu Tyr
            180                 185                 190

Gly Gly Ala Val Pro Tyr
        195
```